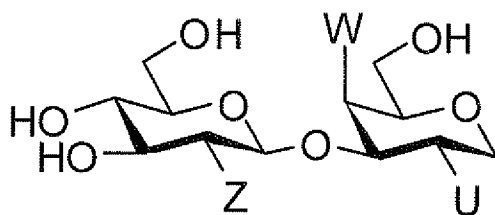


**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-47 (Cancelled).

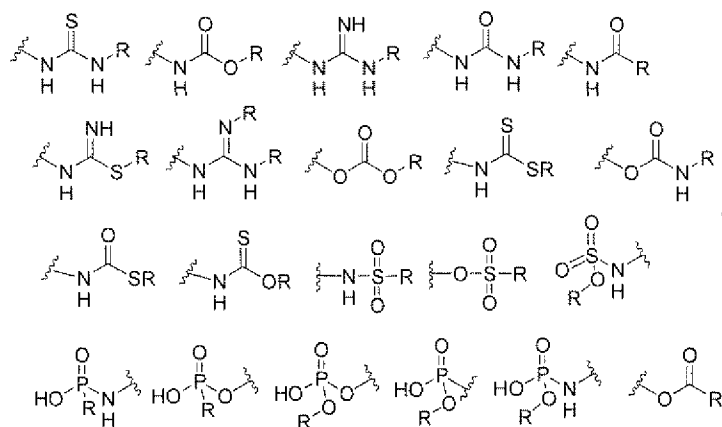
48. (New) A method of inhibiting bacterial growth comprising contacting a bacteria with at least one disaccharide compound of General Formula (I),



General Formula (I)

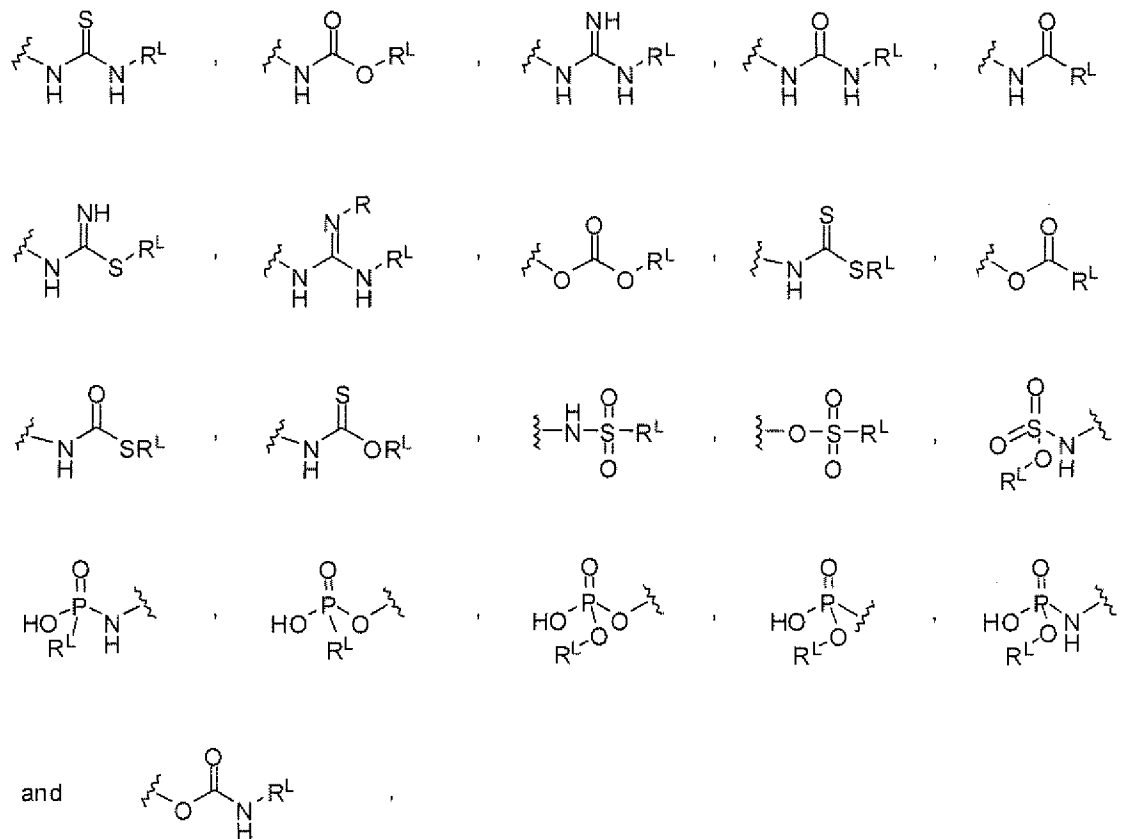
wherein

U and Z are independently selected from the group consisting of: OR, NHR, and NR(R) wherein R may be the same or different,



R is a moiety of not more than 20 carbon atoms independently selected from the group consisting of: alkyl, alkenyl, alkynyl, heteroalkyl, aryl, heteroaryl, arylalkyl and heteroarylalkyl;

W is independently selected from the group comprising  $OR^L$ ,  $NHR^L$ ,  $NR^L$ ,

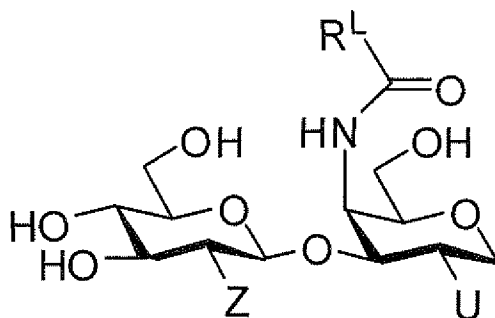


wherein  $R^L$  is a substituted or unsubstituted, linear or branched moiety of between 3 and 55 carbon atoms selected from the group consisting of: alkyl, heteroalkyl, arylalkyl, and alkylaryl chain.

49. (New) The method of claim 48, wherein  $R^L$  is substituted by a moiety selected from the group consisting of: acidic groups, carboxylic acids, sulfonic acids, phosphoric acids, tetrazoles, or other carboxylic acid mimetics, basic groups, amines, guanidiniums, amidines, imidazoles, oxazoles, and other amine mimetics.

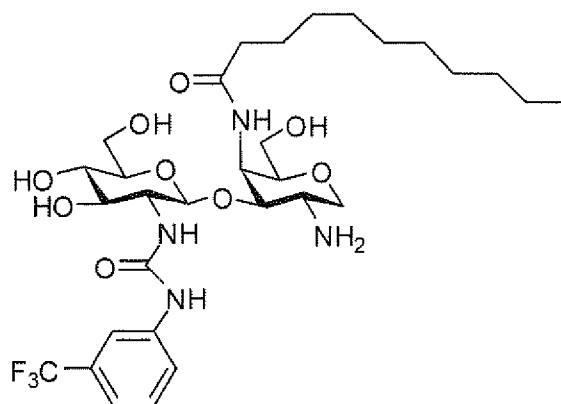
50. (New) The method of claim 48, wherein one or more R groups is substituted by a moiety selected from the group consisting of: OH, NO, NO<sub>2</sub>, NH<sub>2</sub>, N<sub>3</sub>, halogen, CF<sub>3</sub>, CHF<sub>2</sub>, CH<sub>2</sub>F, nitrile, alkoxy, aryloxy, amidine, guanidiniums, carboxylic acid, carboxylic acid ester, carboxylic acid amide, aryl, cycloalkyl, heteroalkyl, heteroaryl, aminoalkyl, aminodialkyl, aminotrialkyl, aminoacyl, carbonyl, substituted or unsubstituted imine, sulfate, sulfonamide, phosphate, phosphoramidate, hydrazide, hydroxamate, hydroxamic acid, heteroaryloxy, carbamoyl, aminoaryl, aminoheteroaryl, thioalkyl, thioaryl and thioheteroaryl.

51. (New) The method of claim 48, wherein the compound is of General Formula (III)

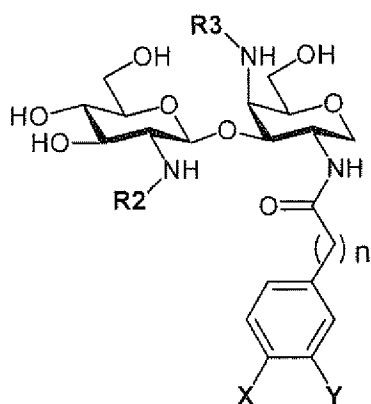


General Formula (III).

52. (New) The method of claim 48, wherein the bacteria is a Gram + bacteria.
53. (New) The method of claim 48, wherein the bacteria is a Gram – bacteria.
54. (New) The method of claim 48, wherein the bacteria is selected from the group consisting of an *E-coli*, , *Micrococcus luteus*, *Staphylococcus aureus*, *Staphylococcus aureus* MRSA, *Enterococcus faecalis*, *Enterococcus faecalis* Vancomycin resistant and *Streptococcus pyogenes*.
55. (New) The method of claim 48, wherein the bacteria is *Staphylococcus aureus* and the compound is

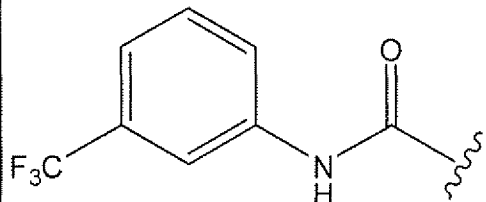
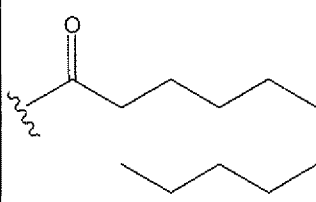
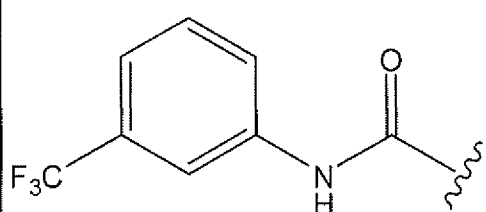
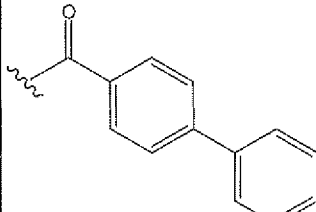


56. (New) The method of claim 48, wherein the bacteria is *Staphylococcus aureus* and the compound is

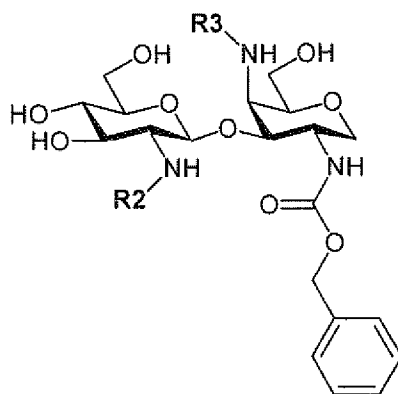


wherein:

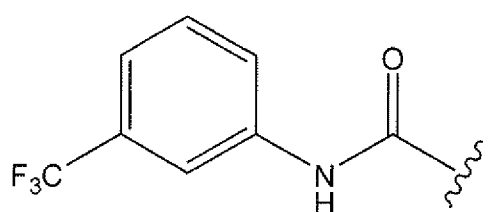
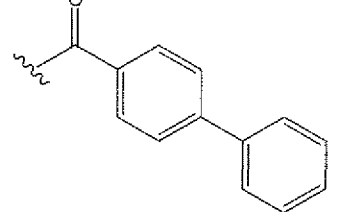
n	X	Y	R2	R3
1	H	CF <sub>3</sub>		
1	H	CF <sub>3</sub>		
0	H	CF <sub>3</sub>		
0	H	CF <sub>3</sub>		

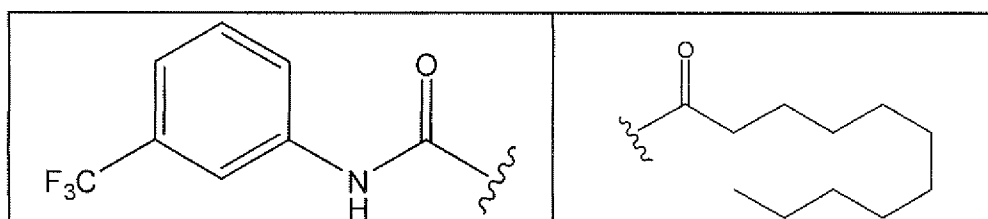
0	H	CF <sub>3</sub>		
1	CF <sub>3</sub>	H		

57. (New) The method of claim 48, wherein the bacteria is *Staphylococcus aureus* and the compound is

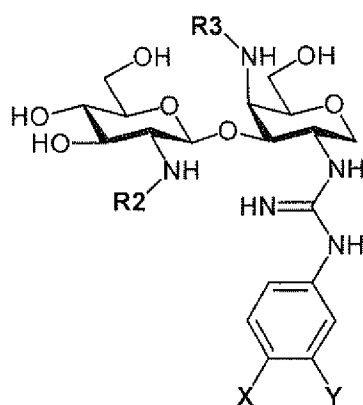


wherein:

R2	R3
	

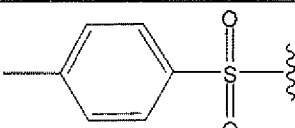
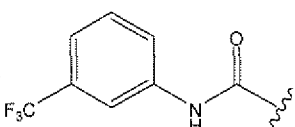
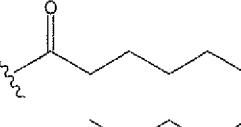
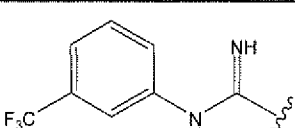
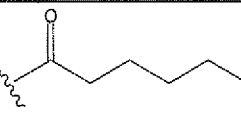
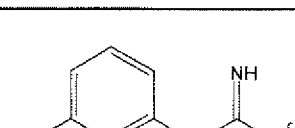
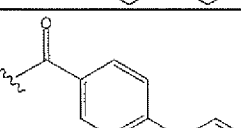
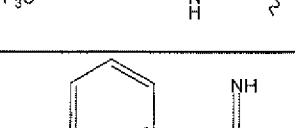
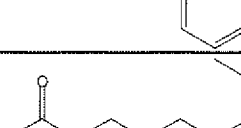
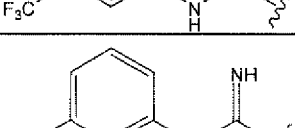
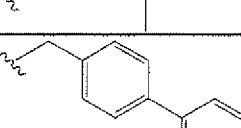
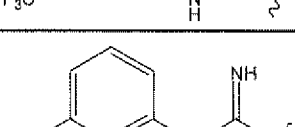
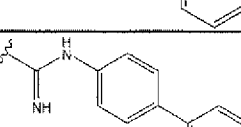
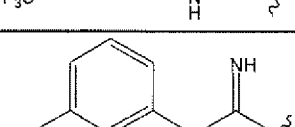
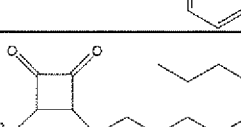
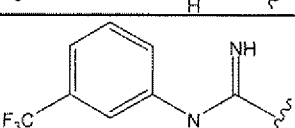
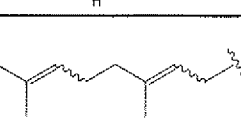
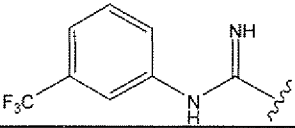
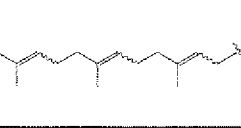
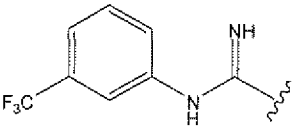
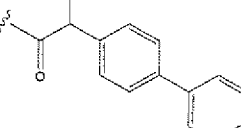


58. (New) The method of claim 48, wherein the bacteria is *Staphylococcus aureus* and the compound is

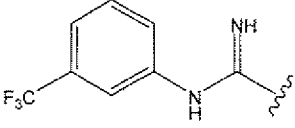
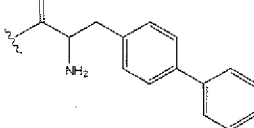
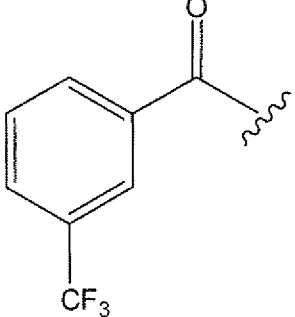
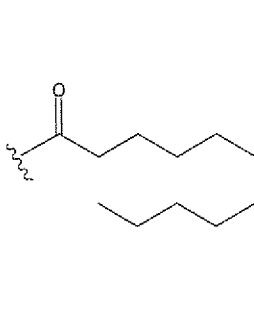
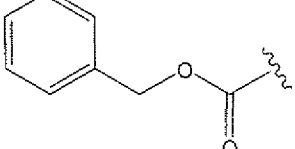
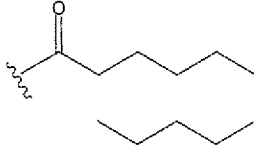
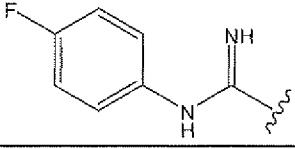
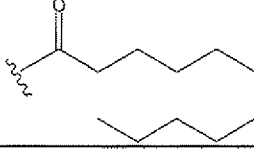
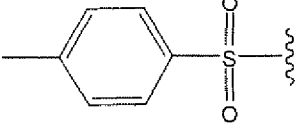
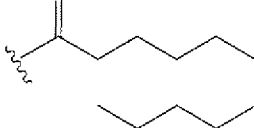
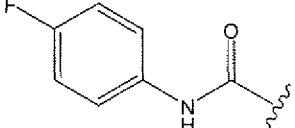
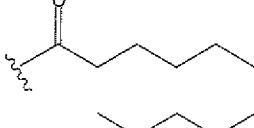


wherein:

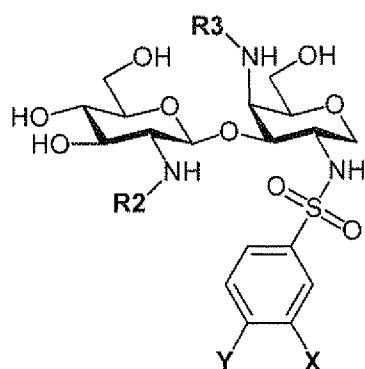
X	Y	R2	R3
H	CF <sub>3</sub>		
H	CF <sub>3</sub>		
H	CF <sub>3</sub>		

H	CF <sub>3</sub>		H
H	CF <sub>3</sub>		
H	CF <sub>3</sub>		
H	CF <sub>3</sub>		
H	CF <sub>3</sub>		
H	CF <sub>3</sub>		
H	CF <sub>3</sub>		
H	CF <sub>3</sub>		
H	CF <sub>3</sub>		
H	CF <sub>3</sub>		
H	CF <sub>3</sub>		



H	CF <sub>3</sub>		
F	H		
F	H		
F	H		
F	H		
F	H		

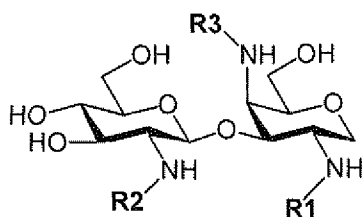
59. (New) The method of claim 48, wherein the bacteria is *Staphylococcus aureus* and the compound is



wherein:

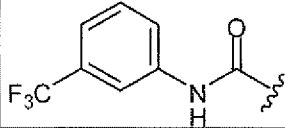
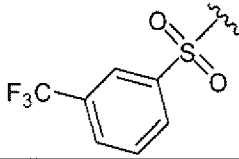
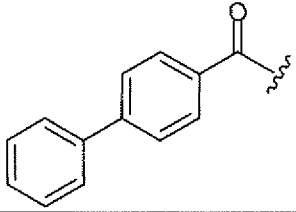
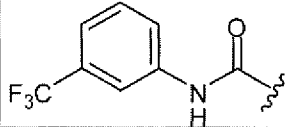
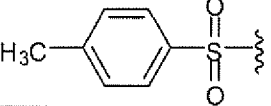
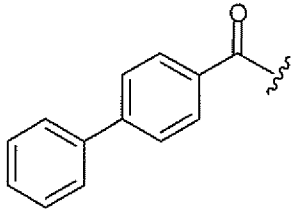
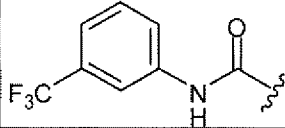
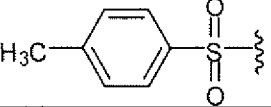
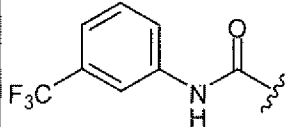
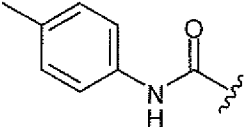
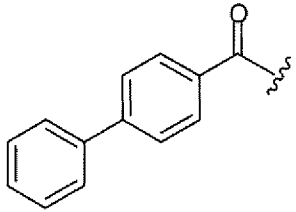
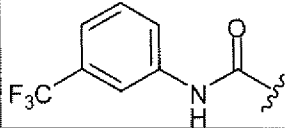
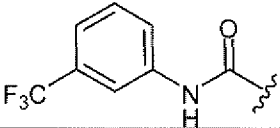
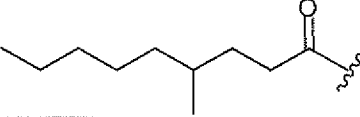
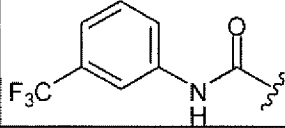
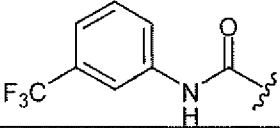
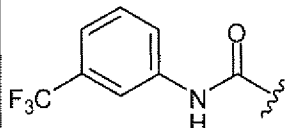
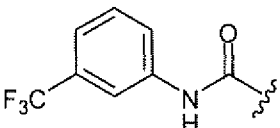
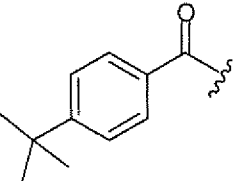
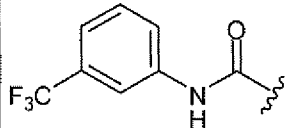
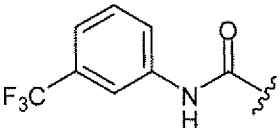
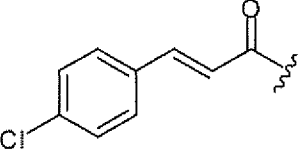
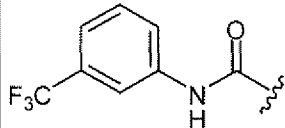
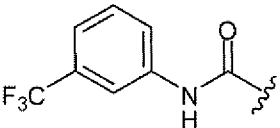
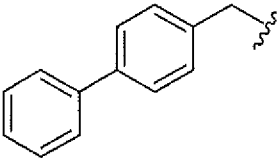
X	Y	R2	R3
CF <sub>3</sub>	H		
CF <sub>3</sub>	H		
H	CH <sub>3</sub>		
H	CH <sub>3</sub>		
H	CH <sub>3</sub>		

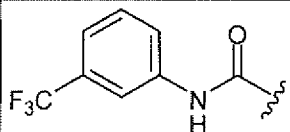
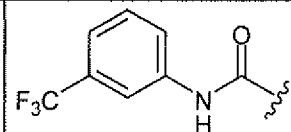
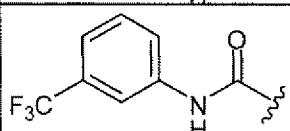
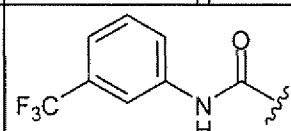
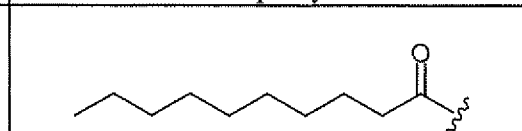
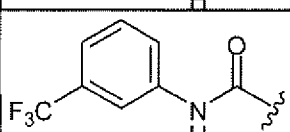
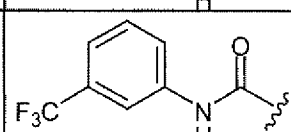
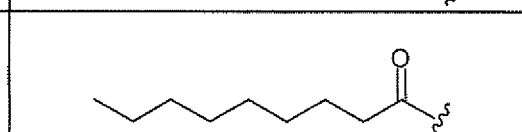
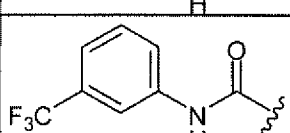
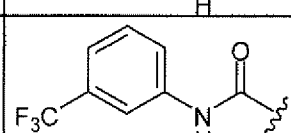
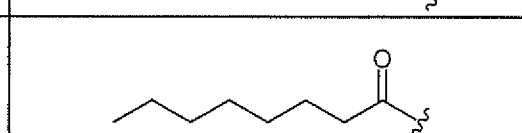
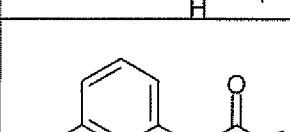
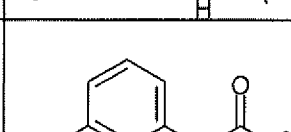
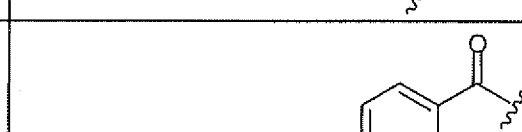
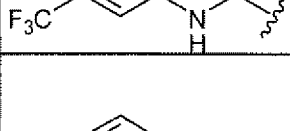
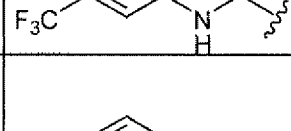
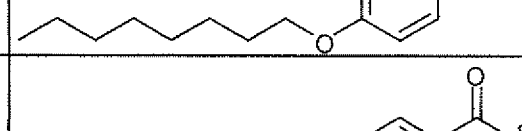
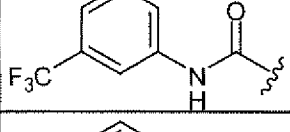
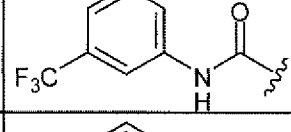
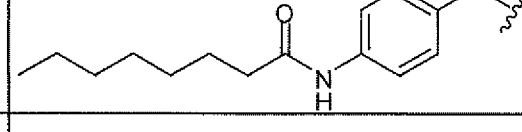
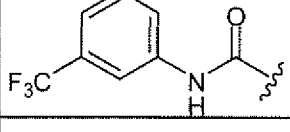
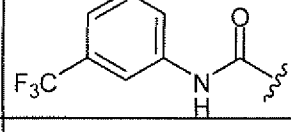
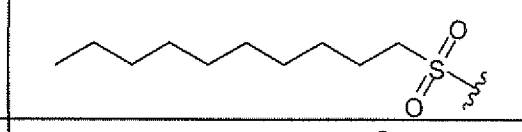
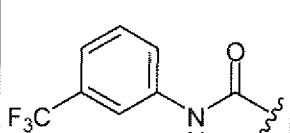
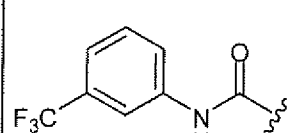
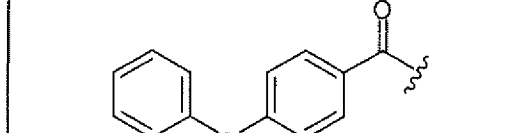
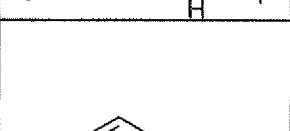
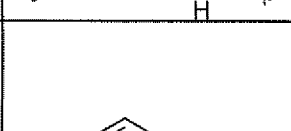
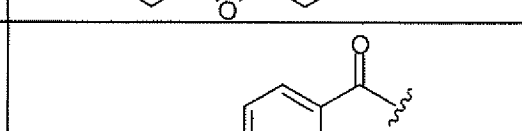
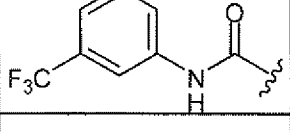
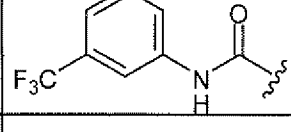
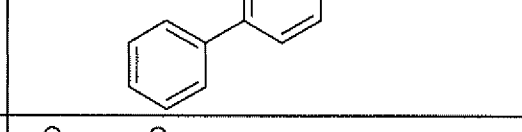
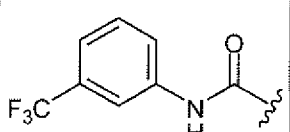
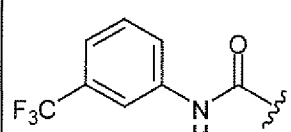
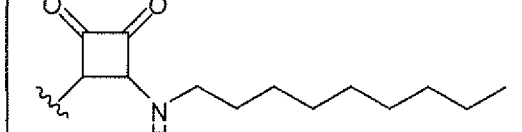
60. (New) The method of claim 48, wherein the bacteria is *Staphylococcus aureus* and the compound is

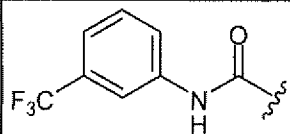
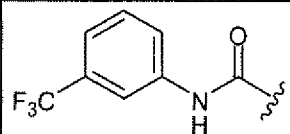
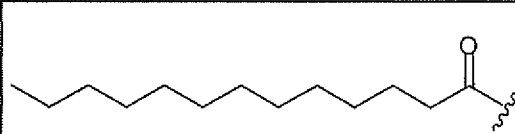
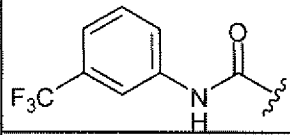
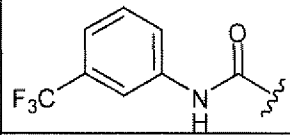
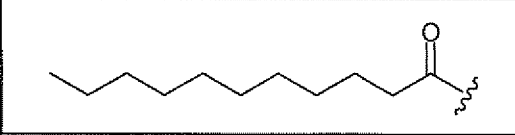
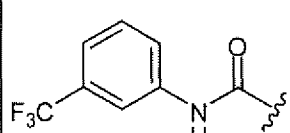
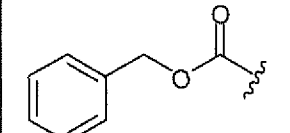
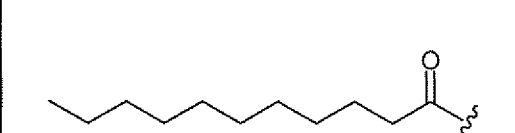
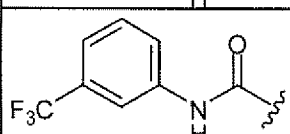
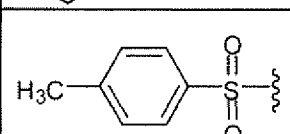
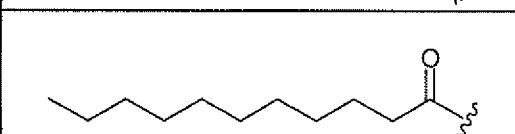
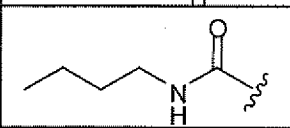
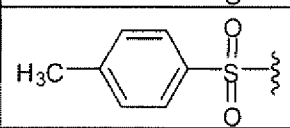
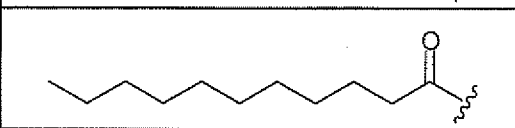


wherein

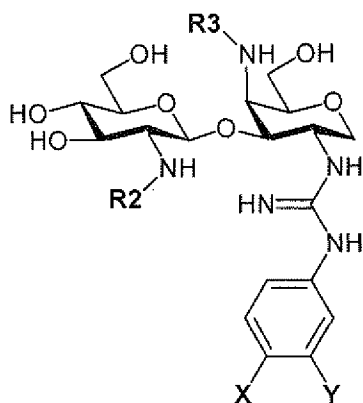
R1	R2	R3
	H	
		H
		H

		
		
		H
		
		
		n-decyl
		
		
		

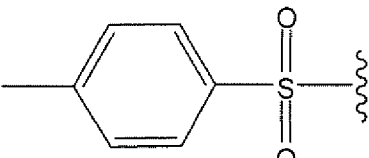
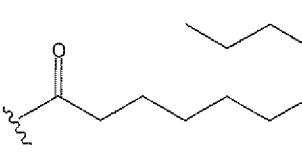
		bis-pentyl
		
		
		
		
		
		
		
		
		
		
		

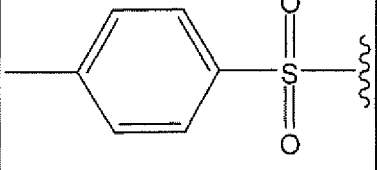
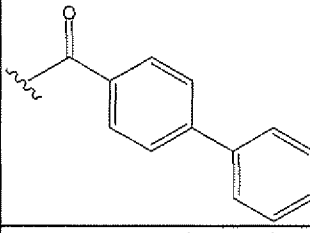
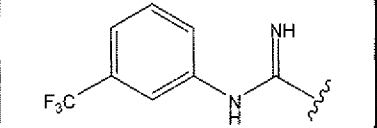
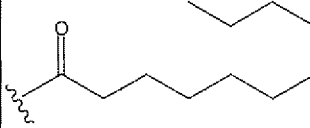
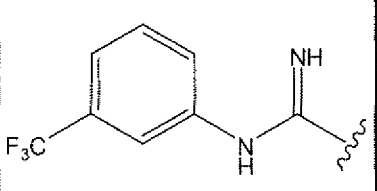
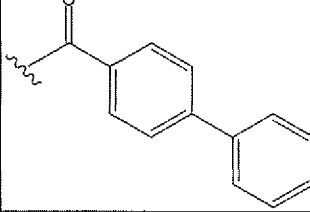
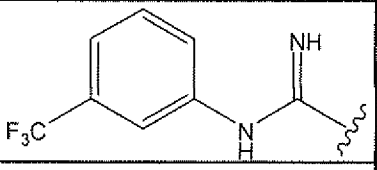
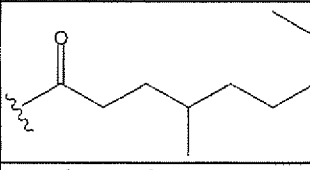
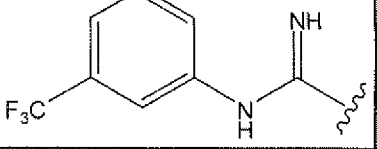
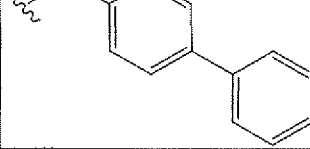
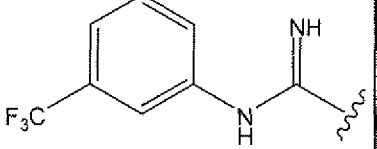
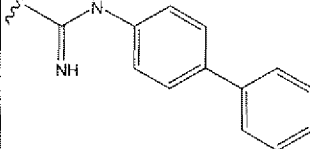
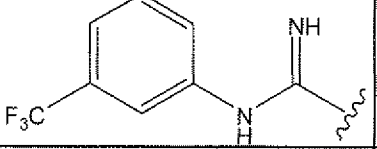
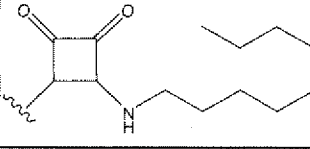
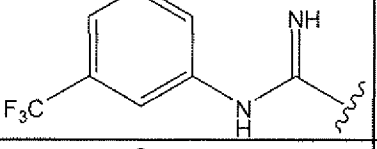
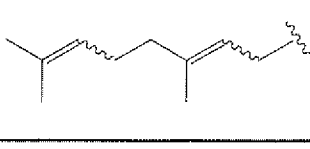
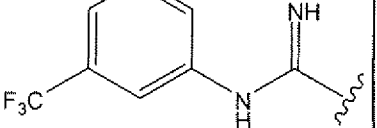
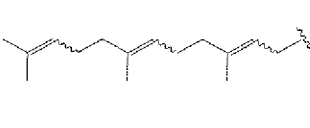
		
		
		
		
		

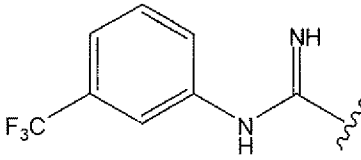
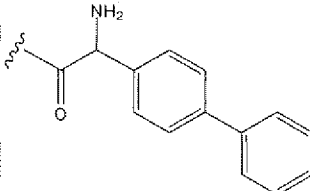
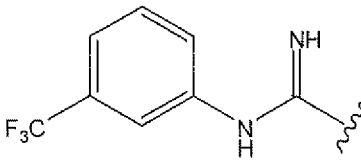
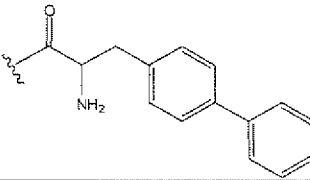
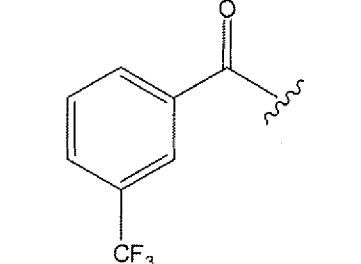
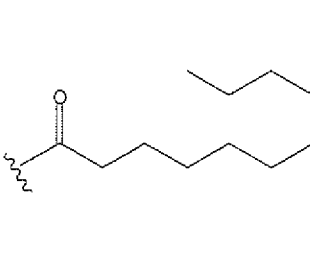
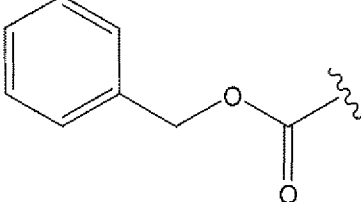
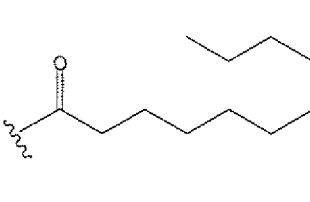
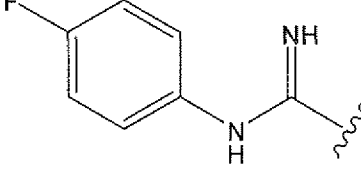
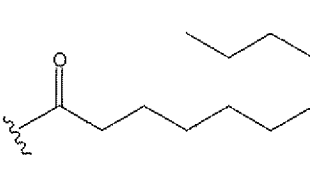
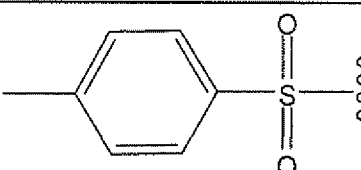
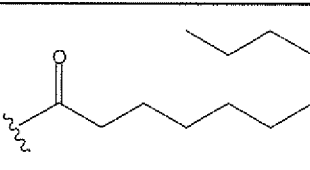
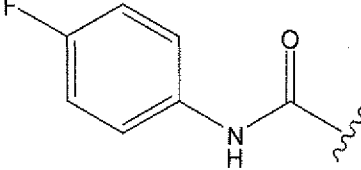
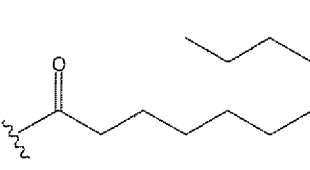
61. (New) The method of claim 48, wherein the bacteria is *E. coli* and the compound is



wherein:

X	Y	R2	R3
H	CF <sub>3</sub>		

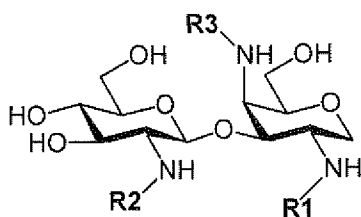
H	CF <sub>3</sub>		
H	CF <sub>3</sub>		
H	CF <sub>3</sub>		
H	CF <sub>3</sub>		
H	CF <sub>3</sub>		
H	CF <sub>3</sub>		
H	CF <sub>3</sub>		
H	CF <sub>3</sub>		
H	CF <sub>3</sub>		

H	CF <sub>3</sub>		
H	CF <sub>3</sub>		
F	H		
F	H		
F	H		
F	H		
F	H		

e

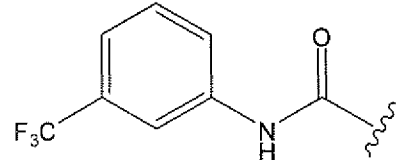
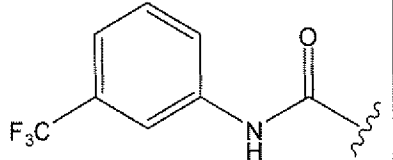
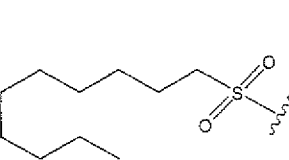
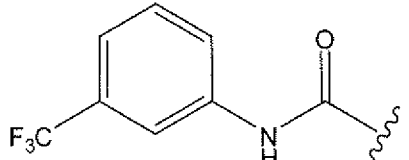
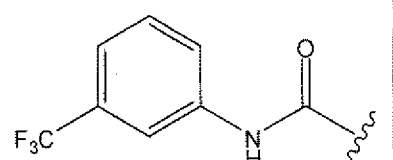
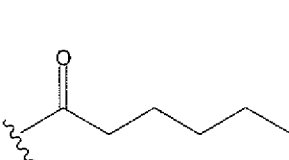
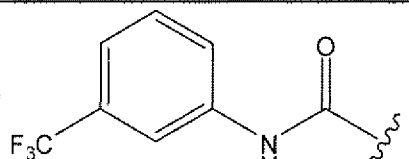
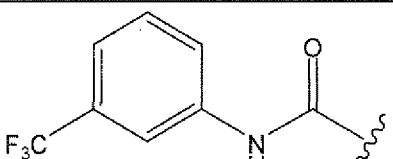
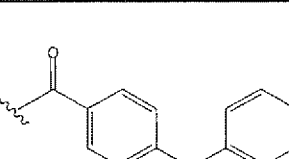
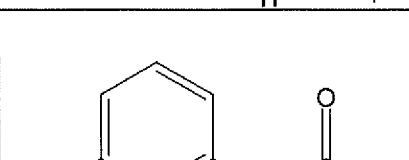
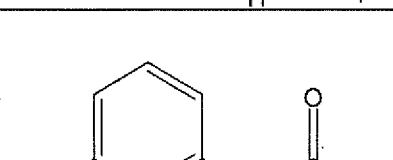
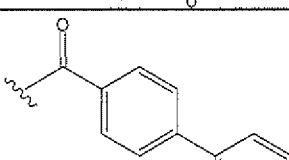
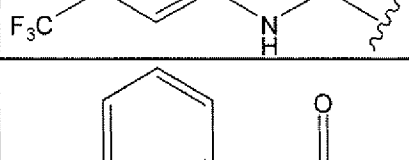
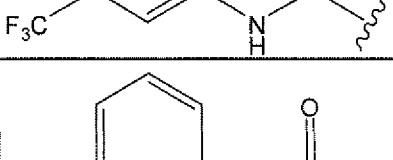
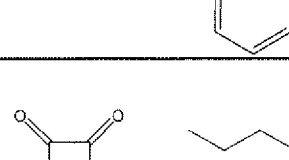
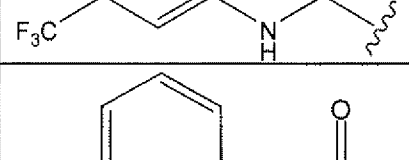
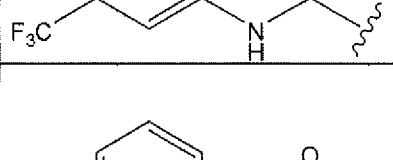
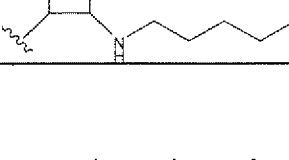
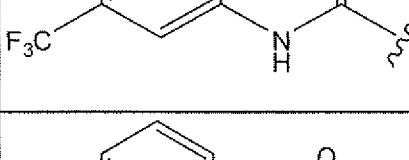
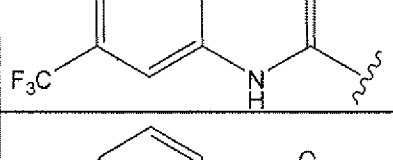
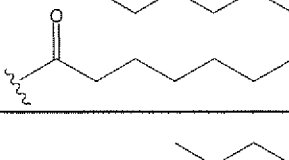


62. (New) The method of claim 48, wherein the compound is



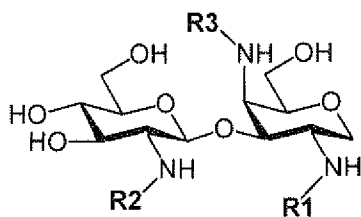
wherein:

Compound	R1	R2	R3
42			
51			
56			n-decyl
65			
67			
68			

69			
70			
73			
74			
75			
76			
77			

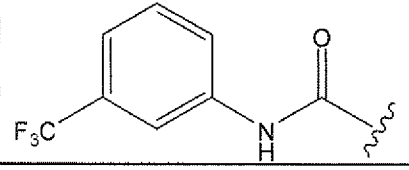
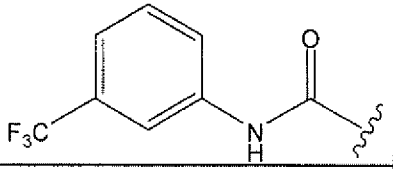
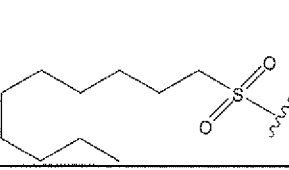
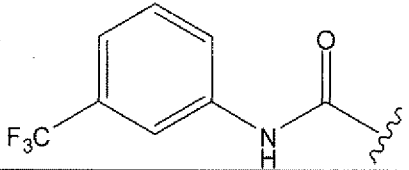
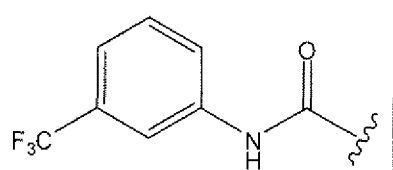
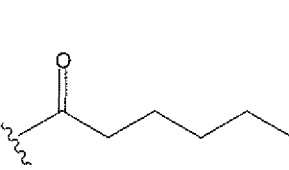
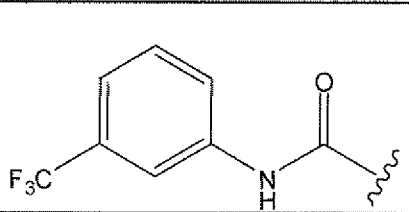
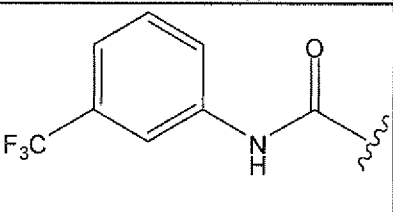
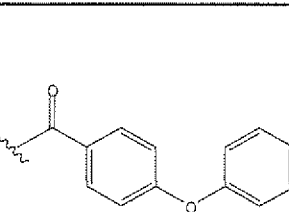
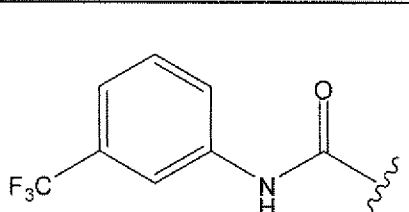
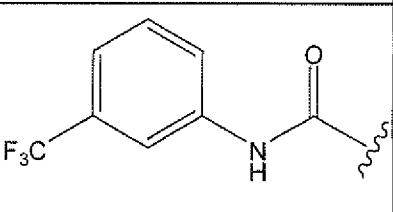
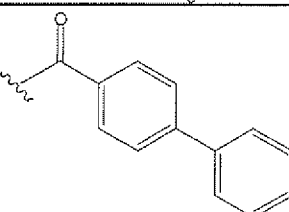
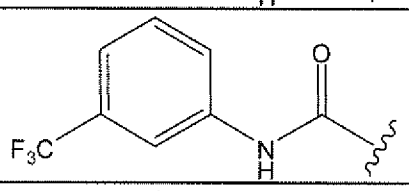
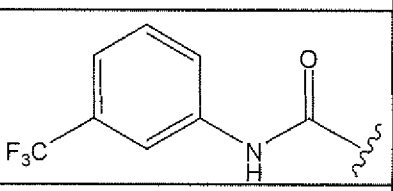
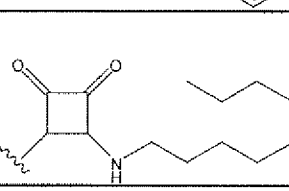
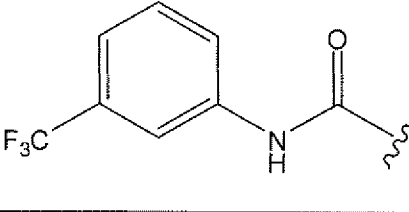
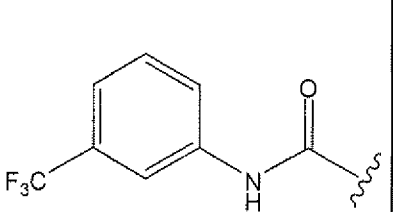
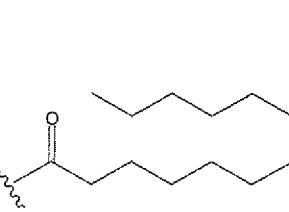
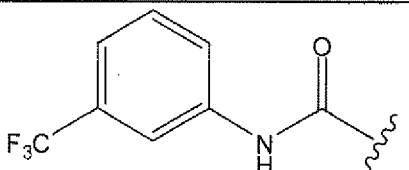
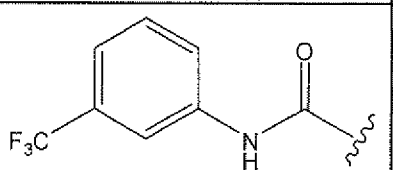
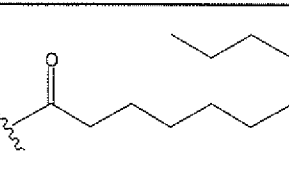
and the bacteria is *Micrococcus luteus*.

63. (New) The method of claim 48, wherein the compound is



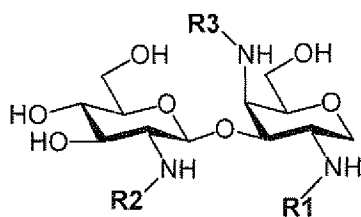
wherein:

Compound	R1	R2	R3
42			
51			
56			n-decyl
65			
67			
68			

69			
70			
73			
74			
75			
76			
77			

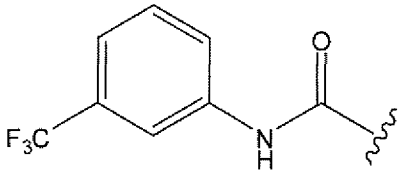
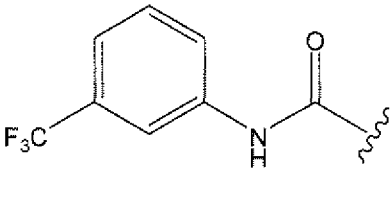
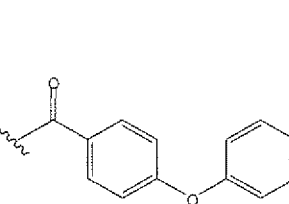
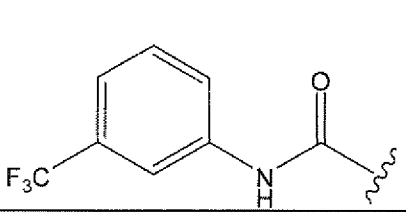
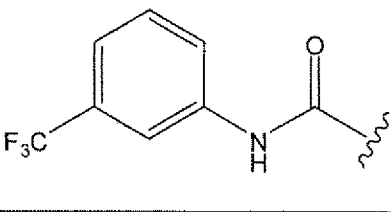
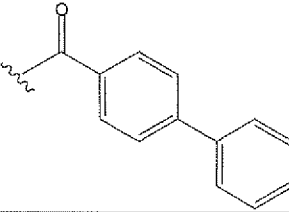
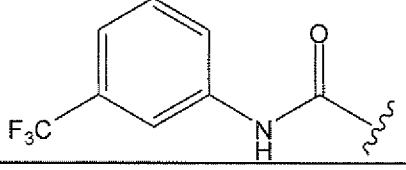
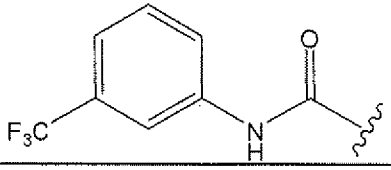
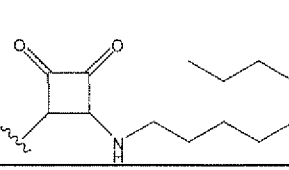
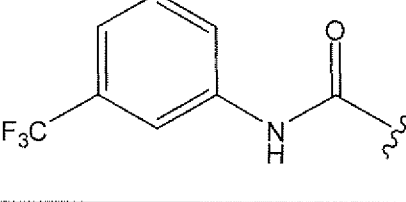
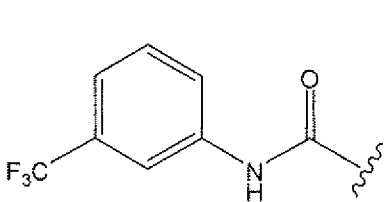
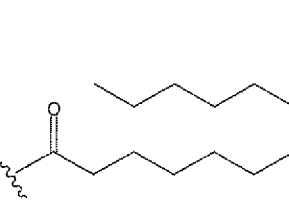
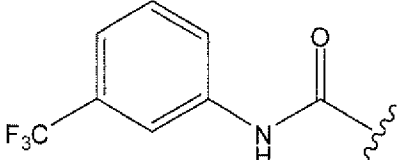
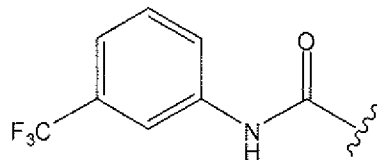
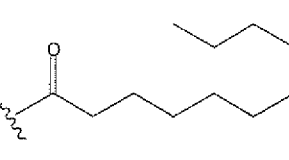
and the bacteria is *Staphylococcus aureus*.

64. (New) The method of claim 48, wherein the compound is



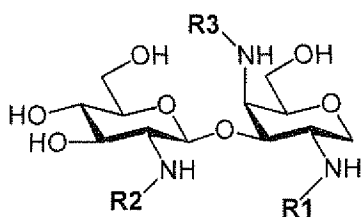
wherein:

Compound	R1	R2	R3
42			
51			
56			n-decyl
67			
68			
69			

73			
74			
75			
76			
77			

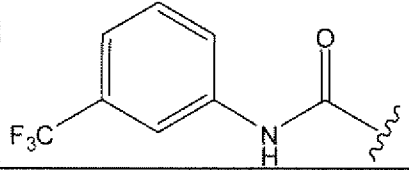
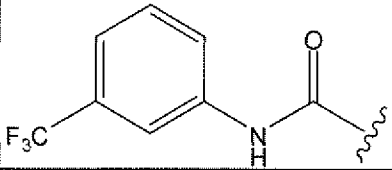
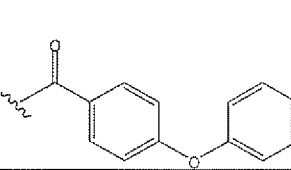
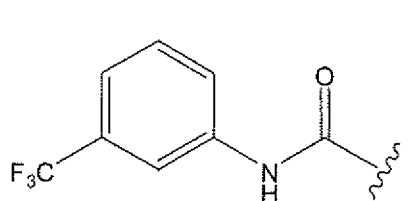
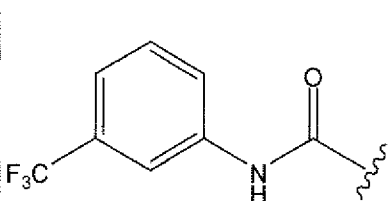
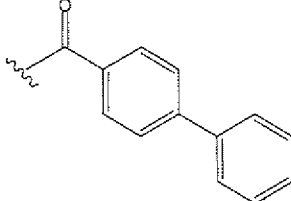
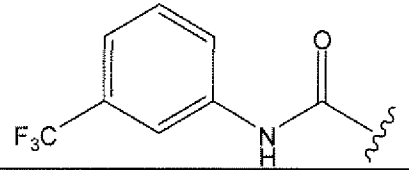
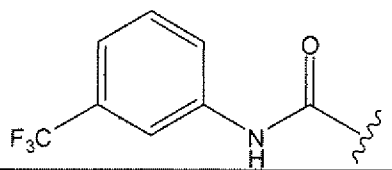
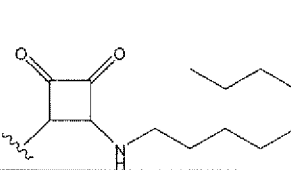
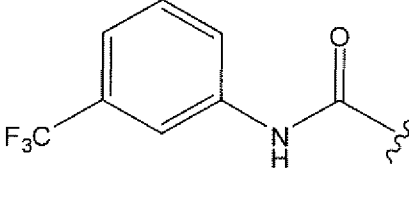
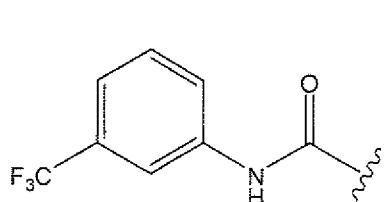
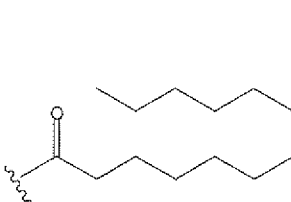
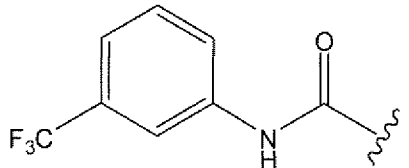
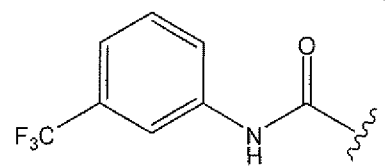
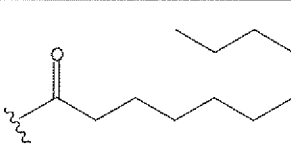
and wherein the bacteria is *Staphylococcus aureus* MRSA.

65. (New) The method of claim 48, wherein the compound is



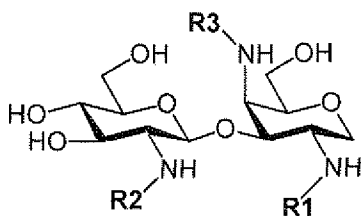
wherein:

Compound	R1	R2	R3
42			
51			
56			n-decyl
65			
67			
68			
69			
70			

73			
74			
75			
76			
77			

and the bacteria is *Enterococcus faecalis*.

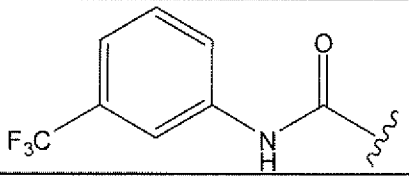
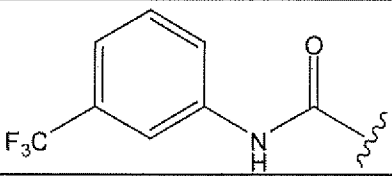
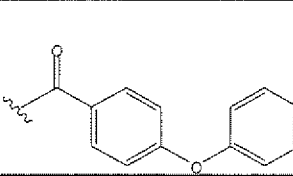
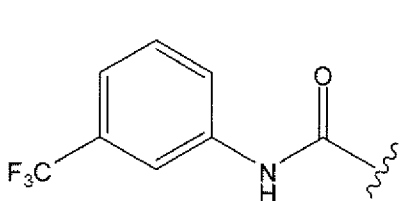
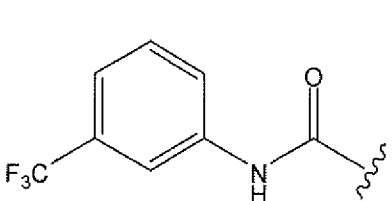
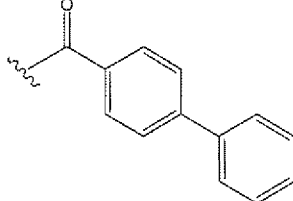
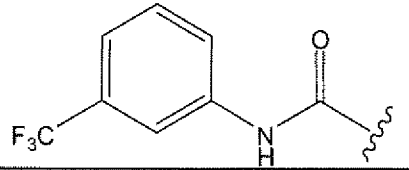
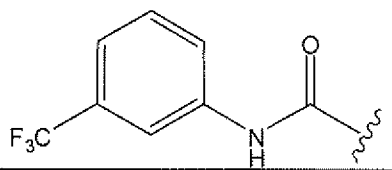
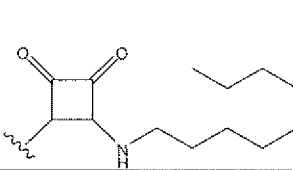
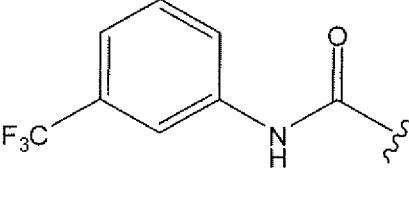
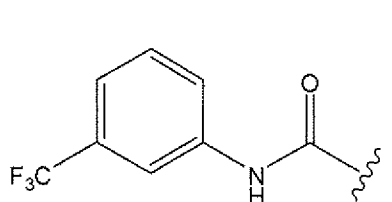
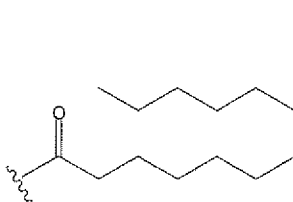
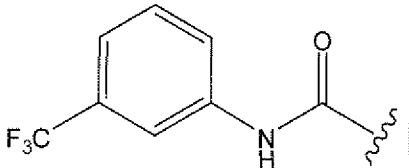
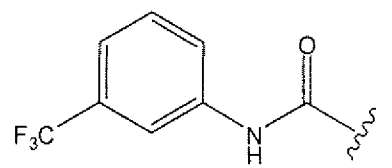
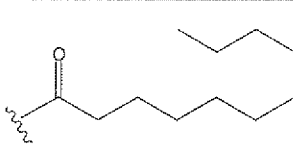
66. (New) The method of claim 48, wherein the compound is





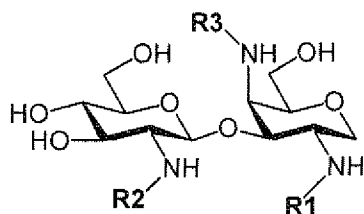
wherein

Compound	R1	R2	R3
42			
51			
56			n-decyl
65			
67			
68			
69			
70			

73			
74			
75			
76			
77			

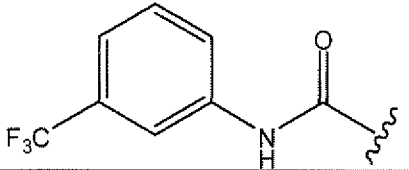
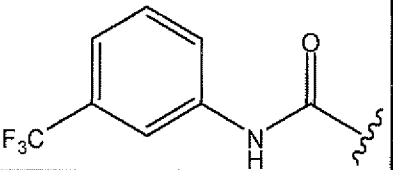
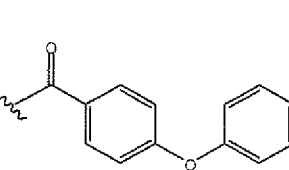
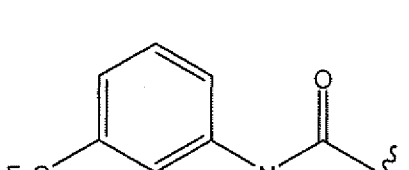
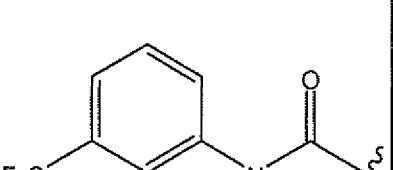
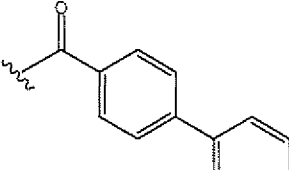
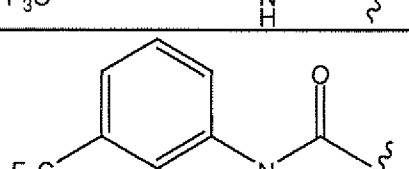
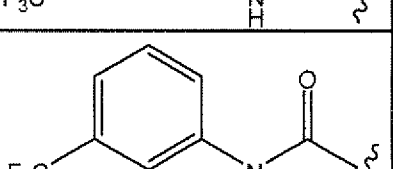
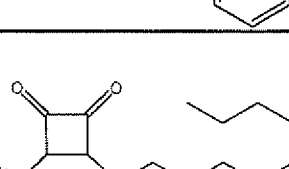
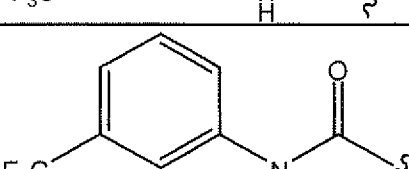
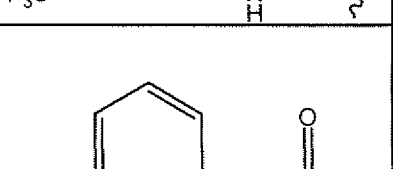
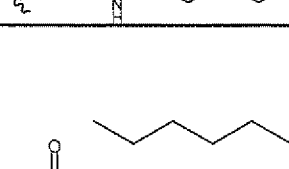
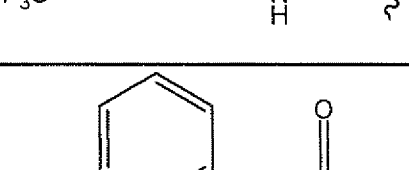
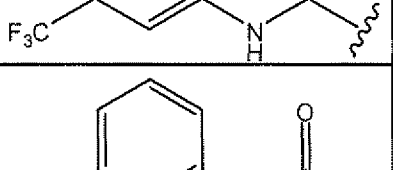
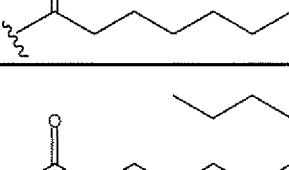
and wherein the bacteria is *Enterococcus faecalis* Vancomycin resistant.

67. (New) The method of claim 48, wherein the compound is



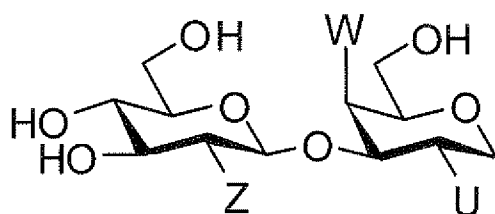
wherein:

Compound	R1	R2	R3
42			
51			
56			n-decyl
65			
67			
68			
69			
70			

73			
74			
75			
76			
77			

and the bacteria is *Streptococcus pyogenes*.

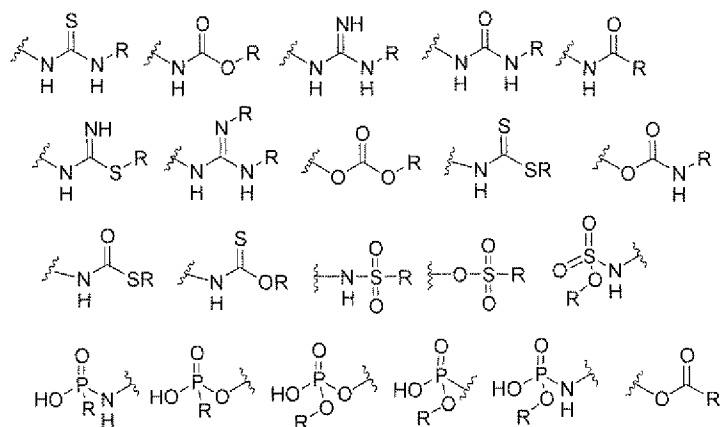
68. (New) A method of inhibiting a bacterial infection in a mammal comprising administering to said mammal an effective amount of a compound of General Formula (I),



General Formula (I)

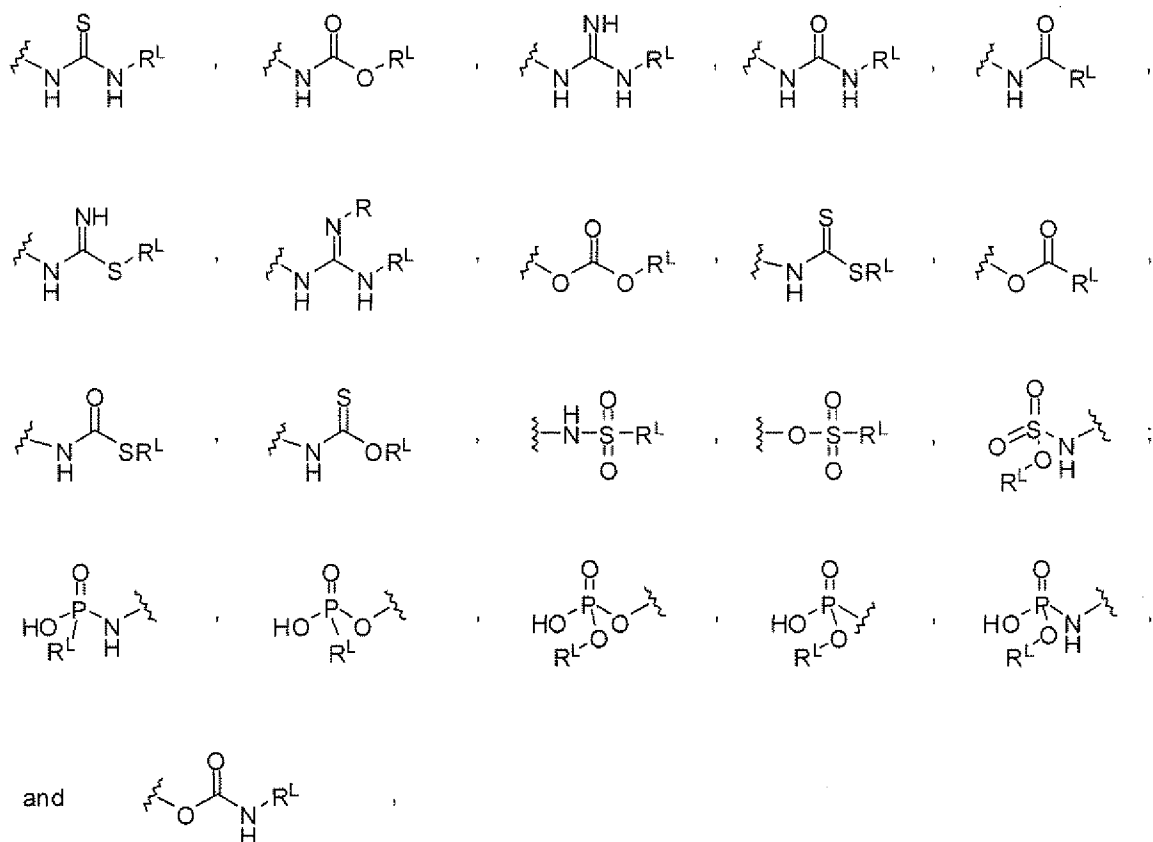
wherein

R. may be the same or different,



of: alkyl, alkenyl, alkynyl, heteroalkyl, aryl, heteroaryl, arylalkyl and heteroarylalkyl;

W is independently selected from the group comprising  $\text{OR}^{\text{L}}$ ,  $\text{NHR}^{\text{L}}$ ,  $\text{NR}^{\text{L}}\text{R}$ ,



69. (New) The method of claim 48, wherein the bacterium is a resistant or susceptible strain of a Micrococcus, Streptococcus, Enterococcus or Staphylococcus.